

**FIG. 1**

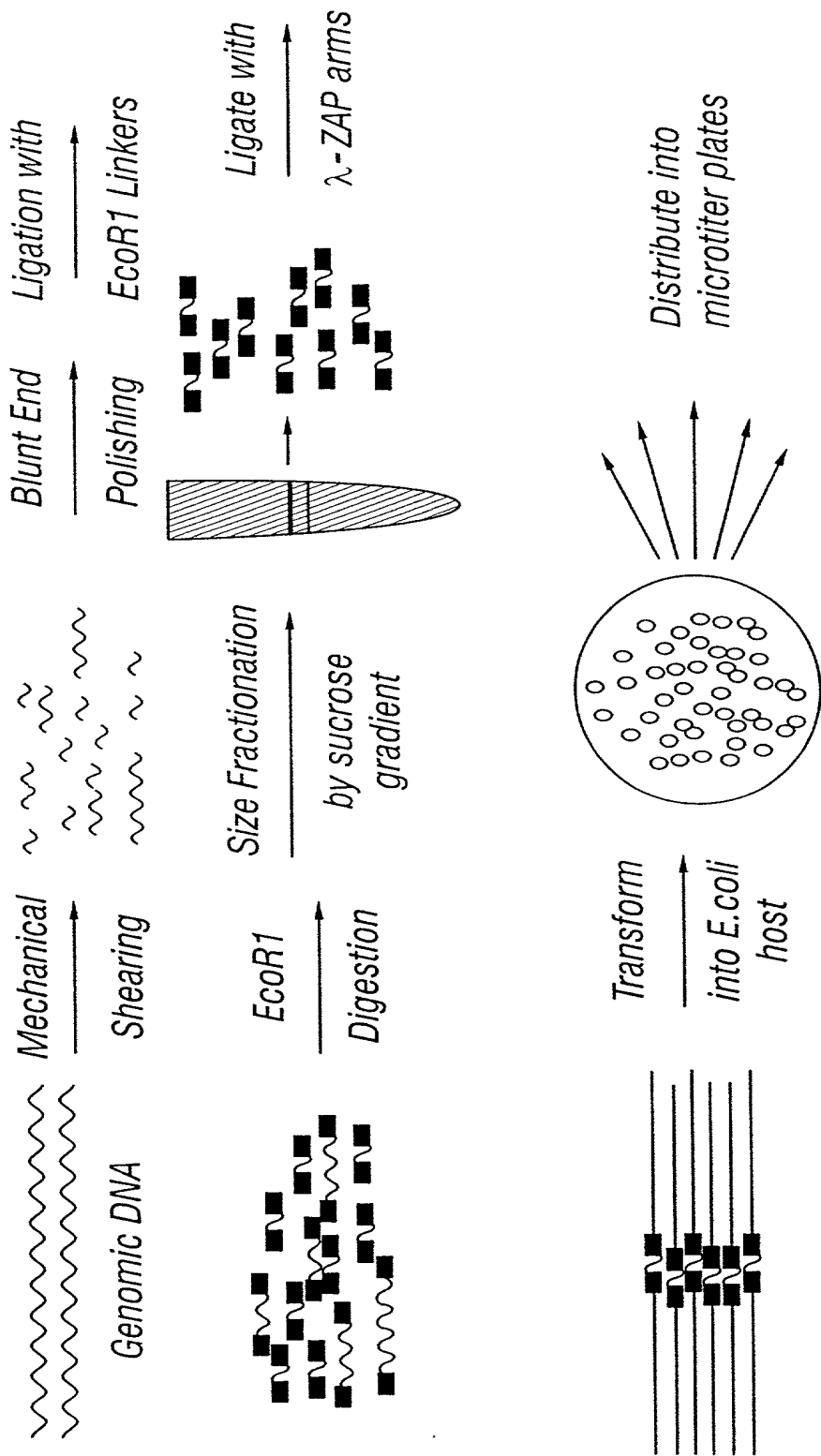


FIG. 2

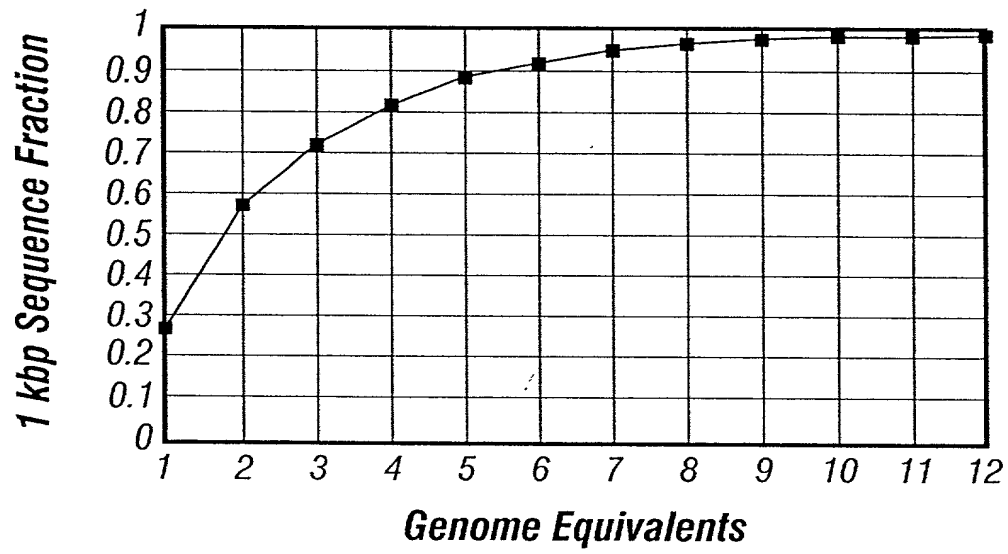
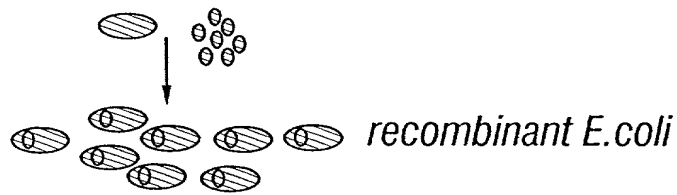


FIG. 3

Cell sorting to screen for recombinant  
enzymes

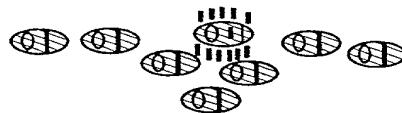
excise  $\lambda$  library into *E.coli*



add enzyme substrate



recombinant enzyme  
cleaves substrate  
to make cells fluorescent



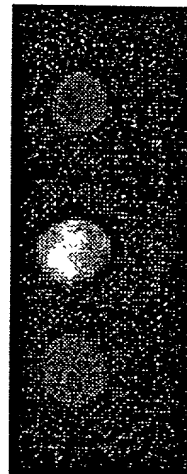
sort



FIG. 4

*$\beta$ -Gal clone with different substrates*

- cells were stained with FDG, CMFDG or C12FDG, incubated for 30 min. at 70°C, spotted onto a slide and exposed to UV light.
- bright spot indicates staining of cells



FDG

C12FDG

CMFDG

**FIG. 5**

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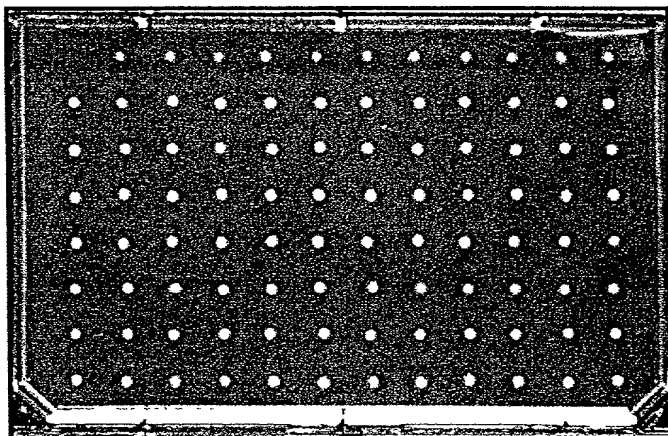


FIG. 6

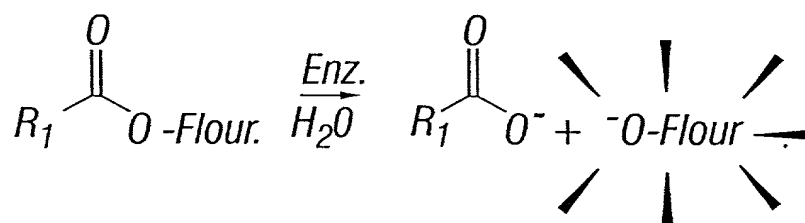


FIG. 7

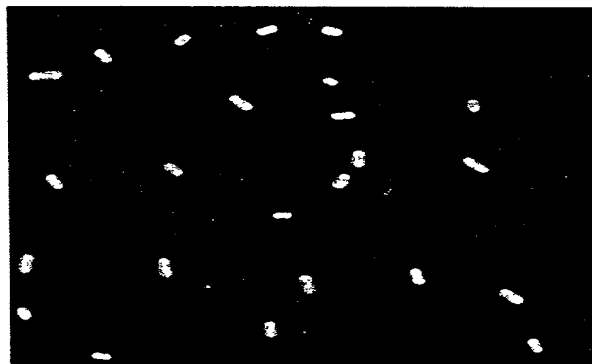
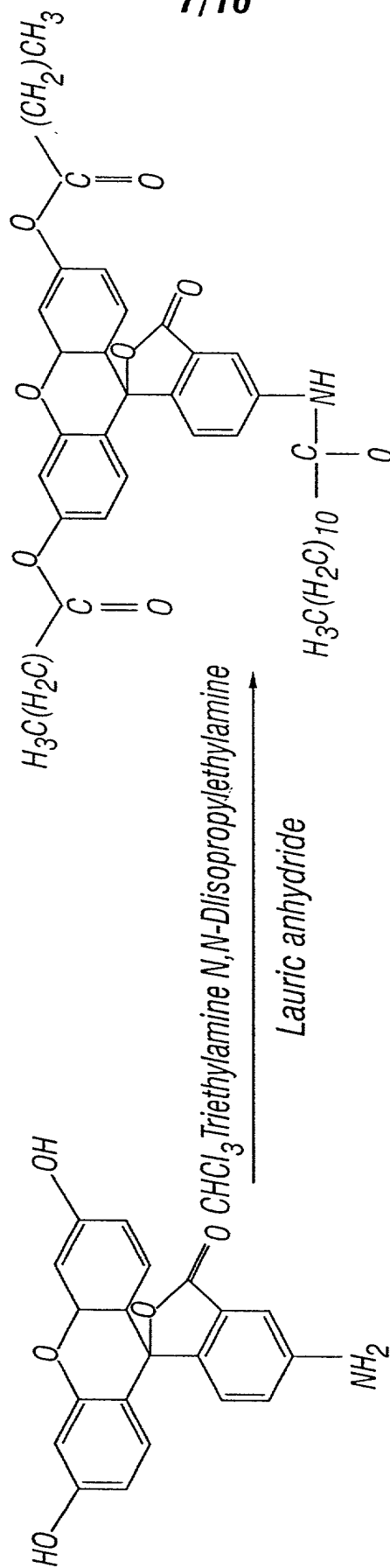


FIG. 8

102030 15341260



**FIG. 9**

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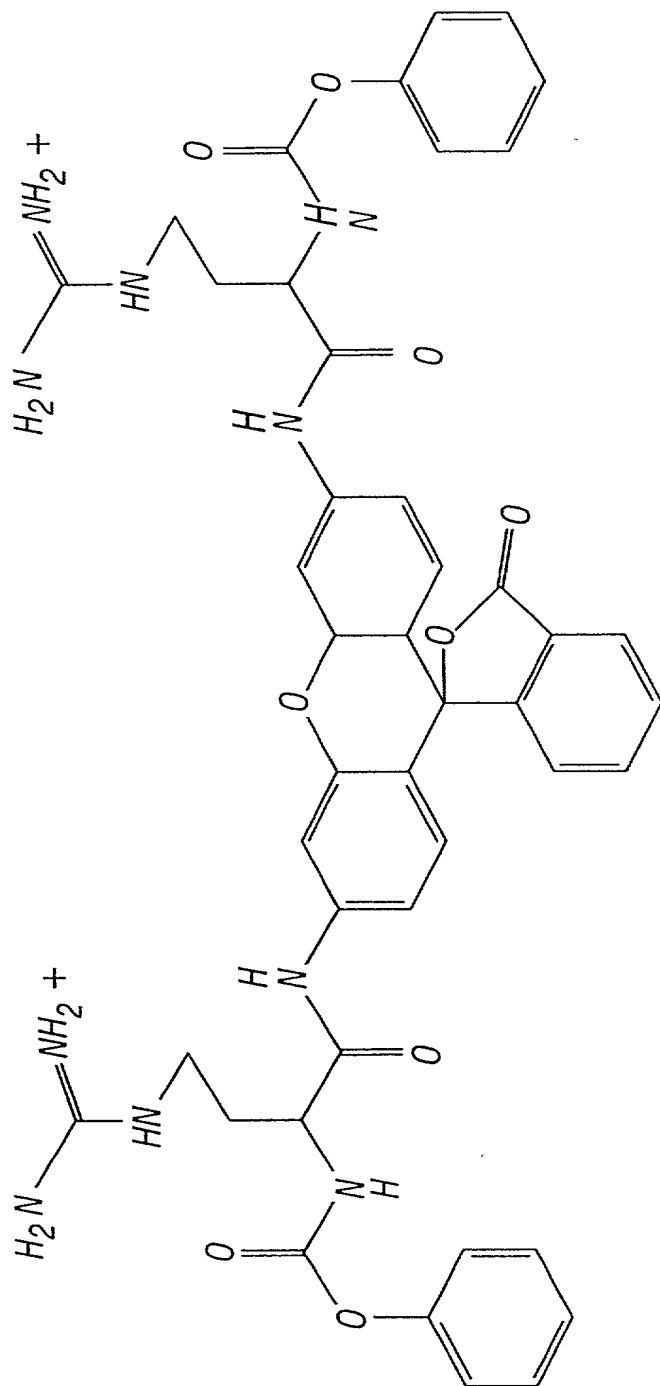


FIG. 10



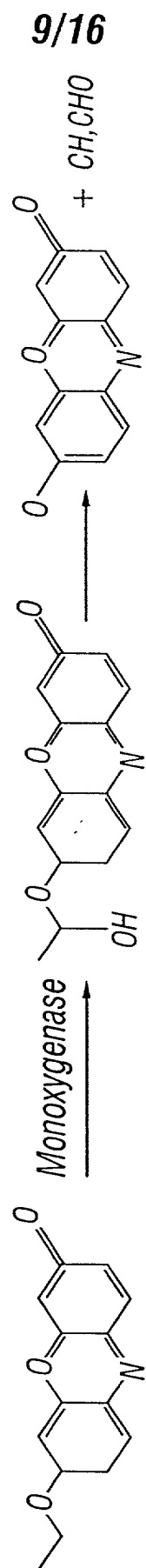


FIG. 11

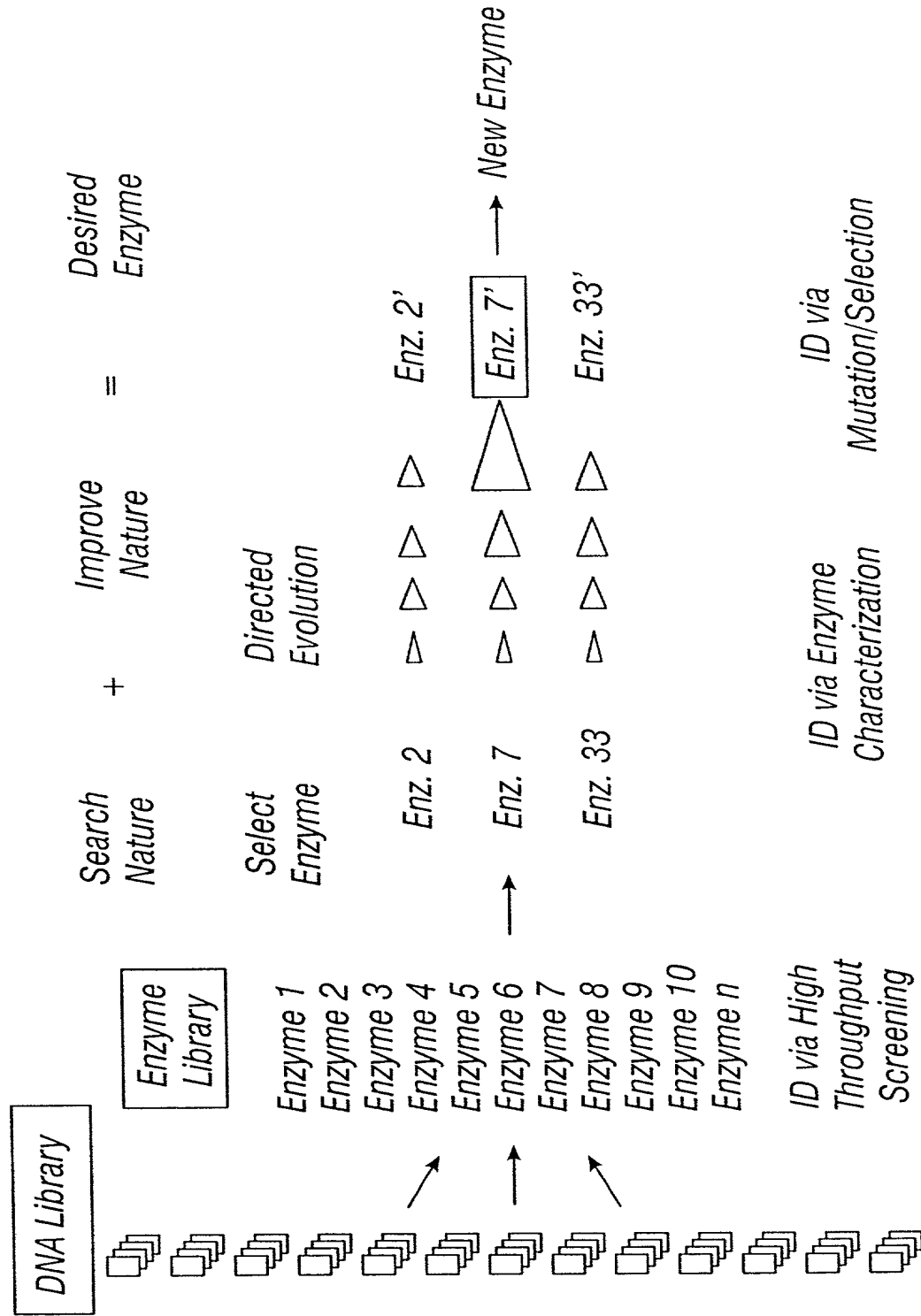


FIG. 12

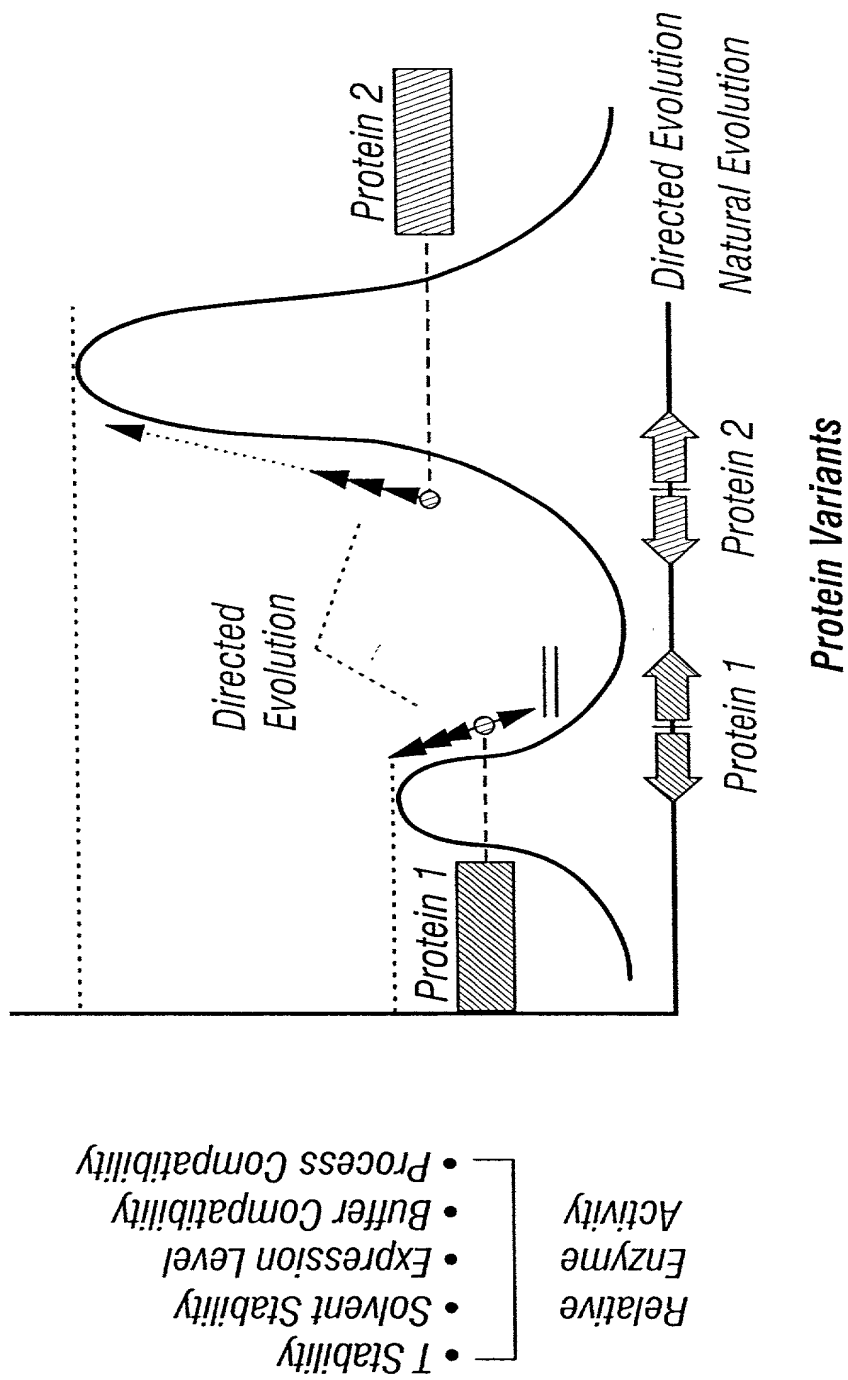


FIG. 13

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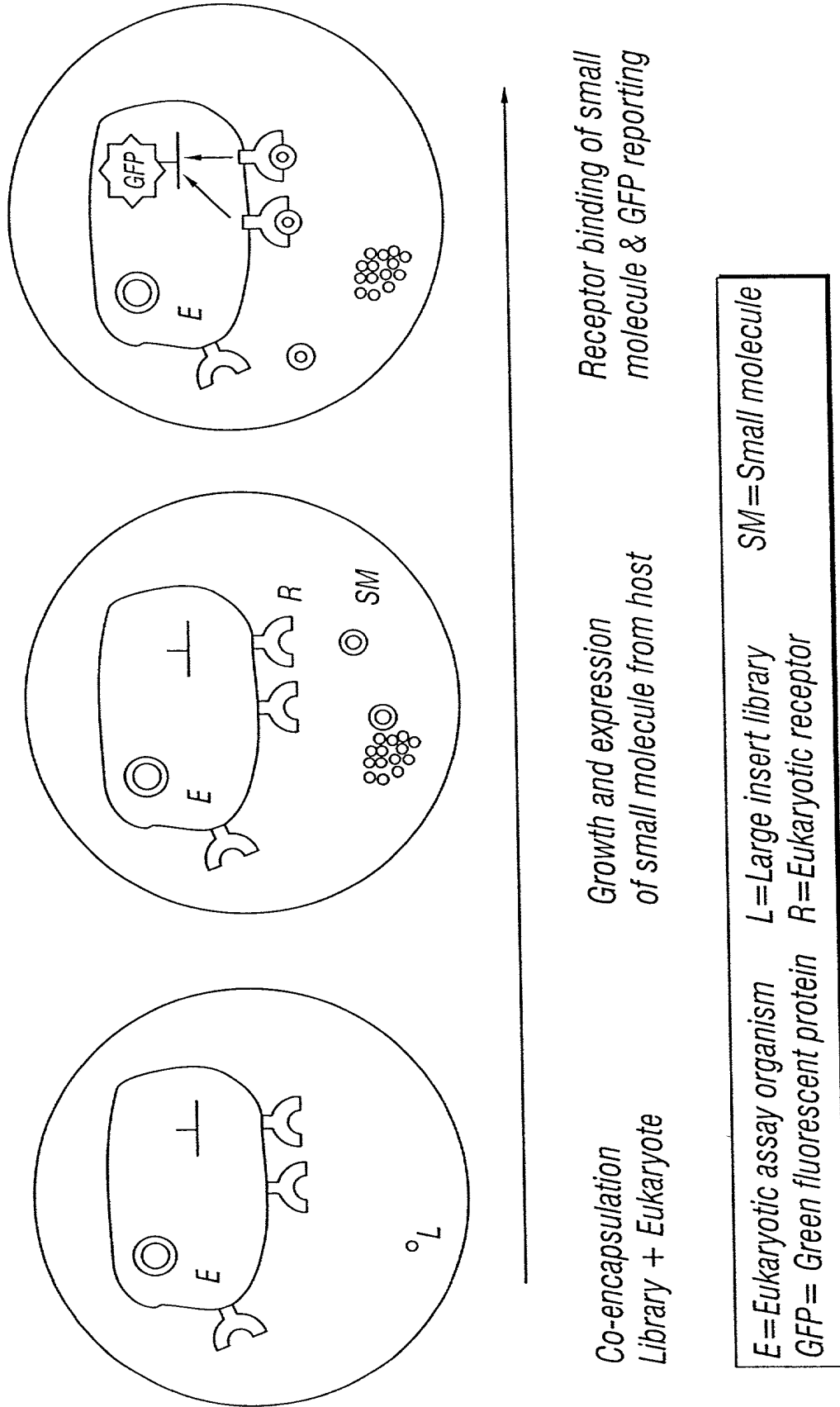


FIG. 14

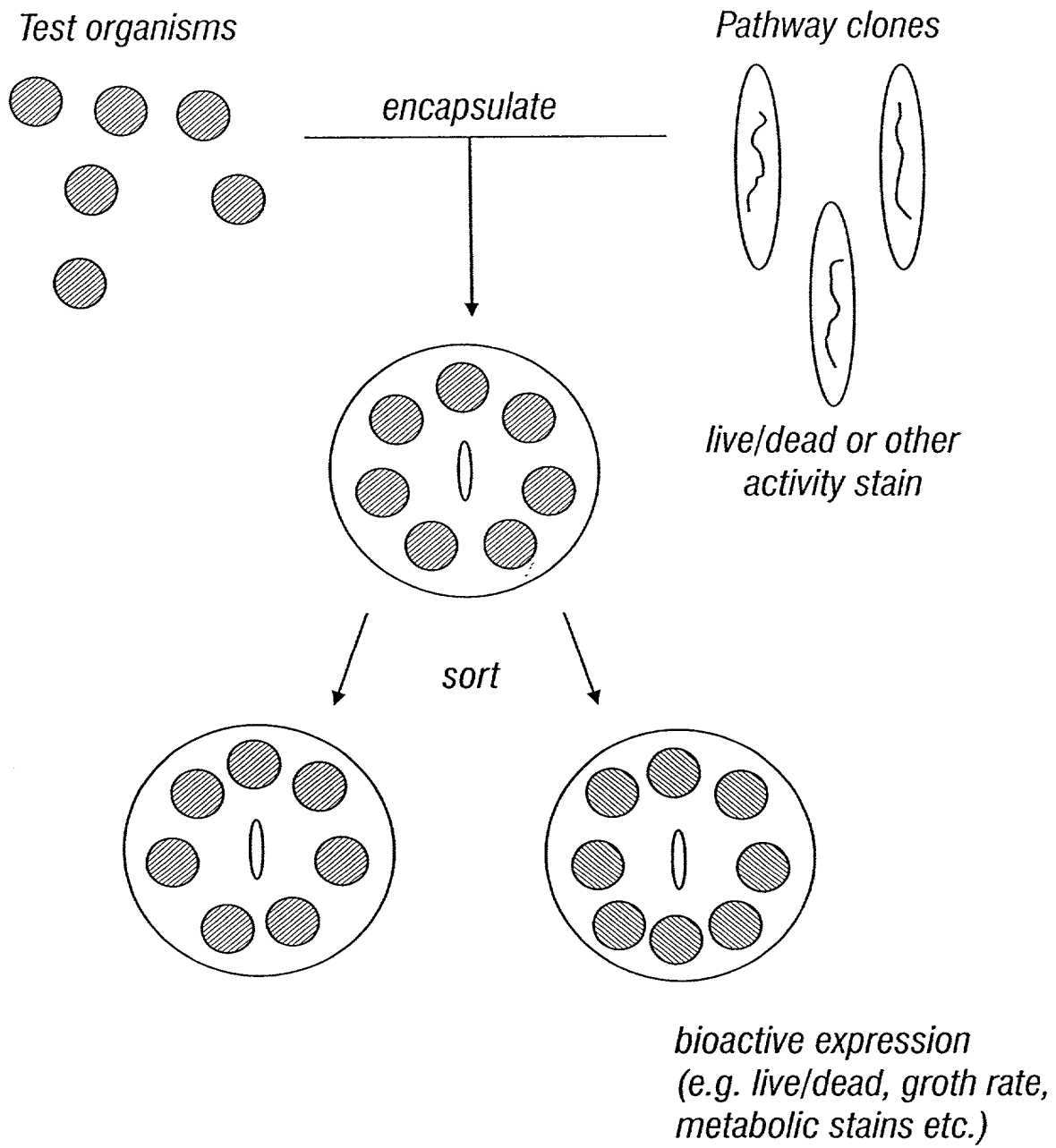
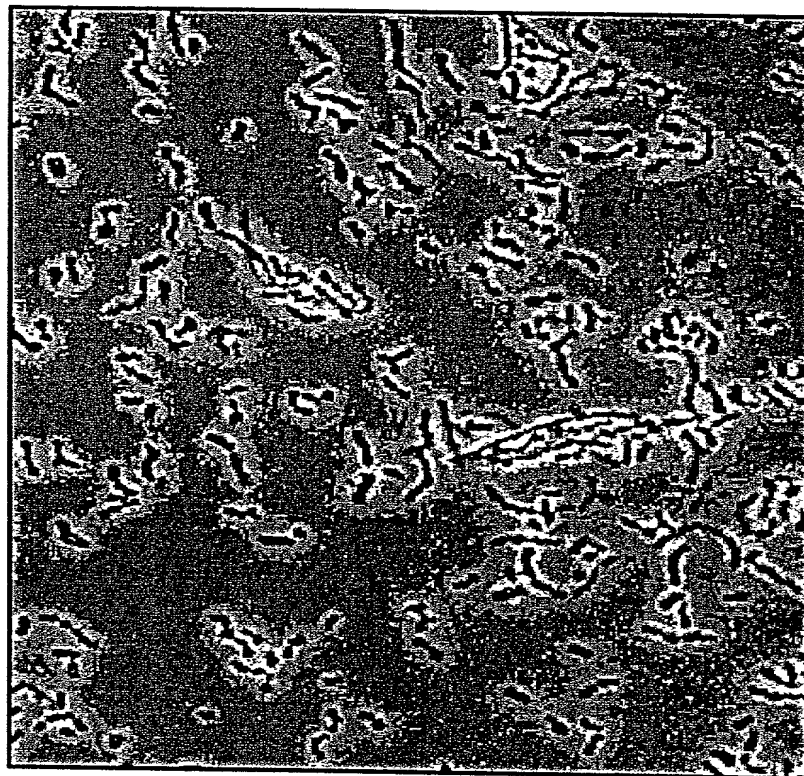


FIG. 15



***Streptomyces "diversa"***  
***Unicells***

**FIG. 16**

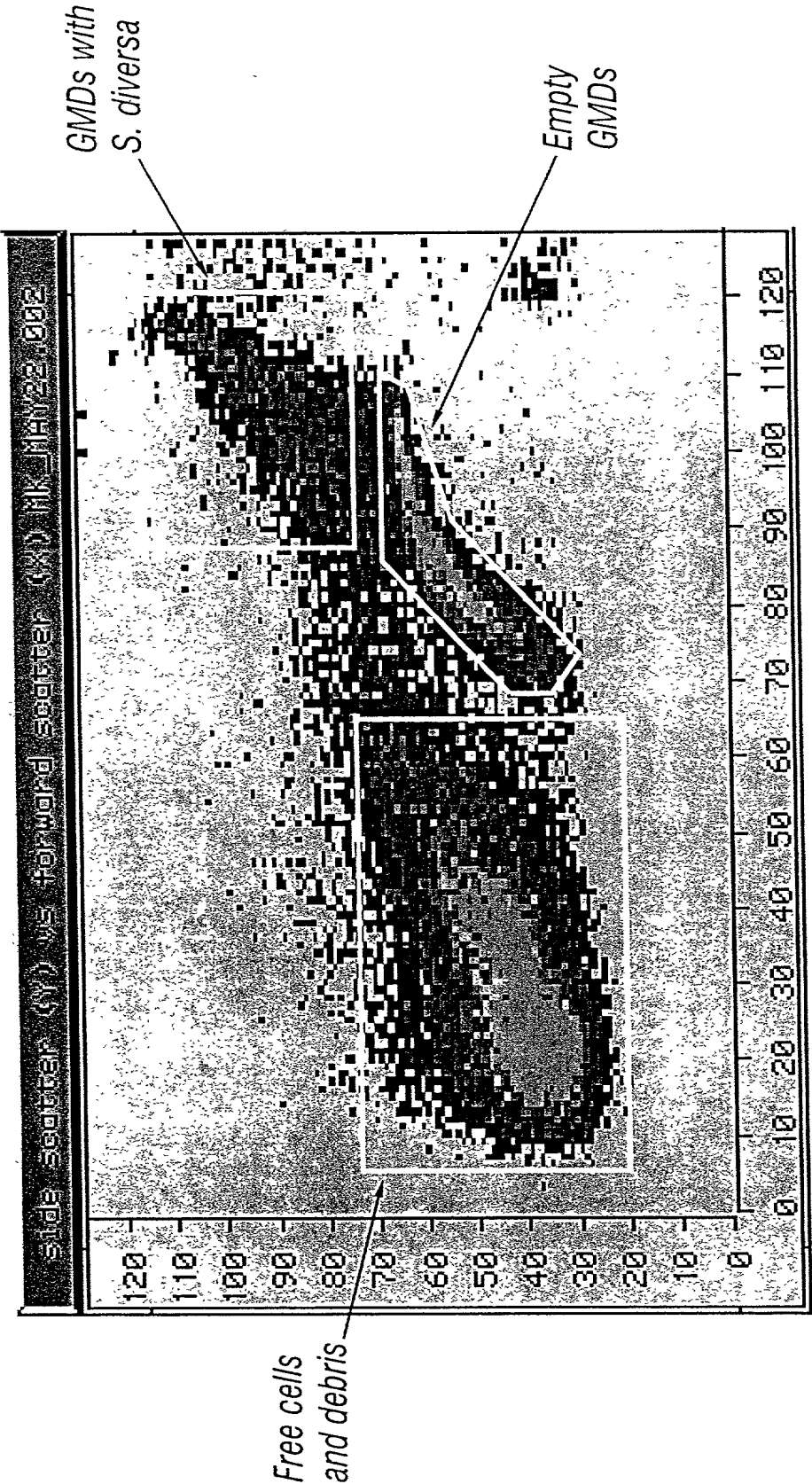


FIG. 17

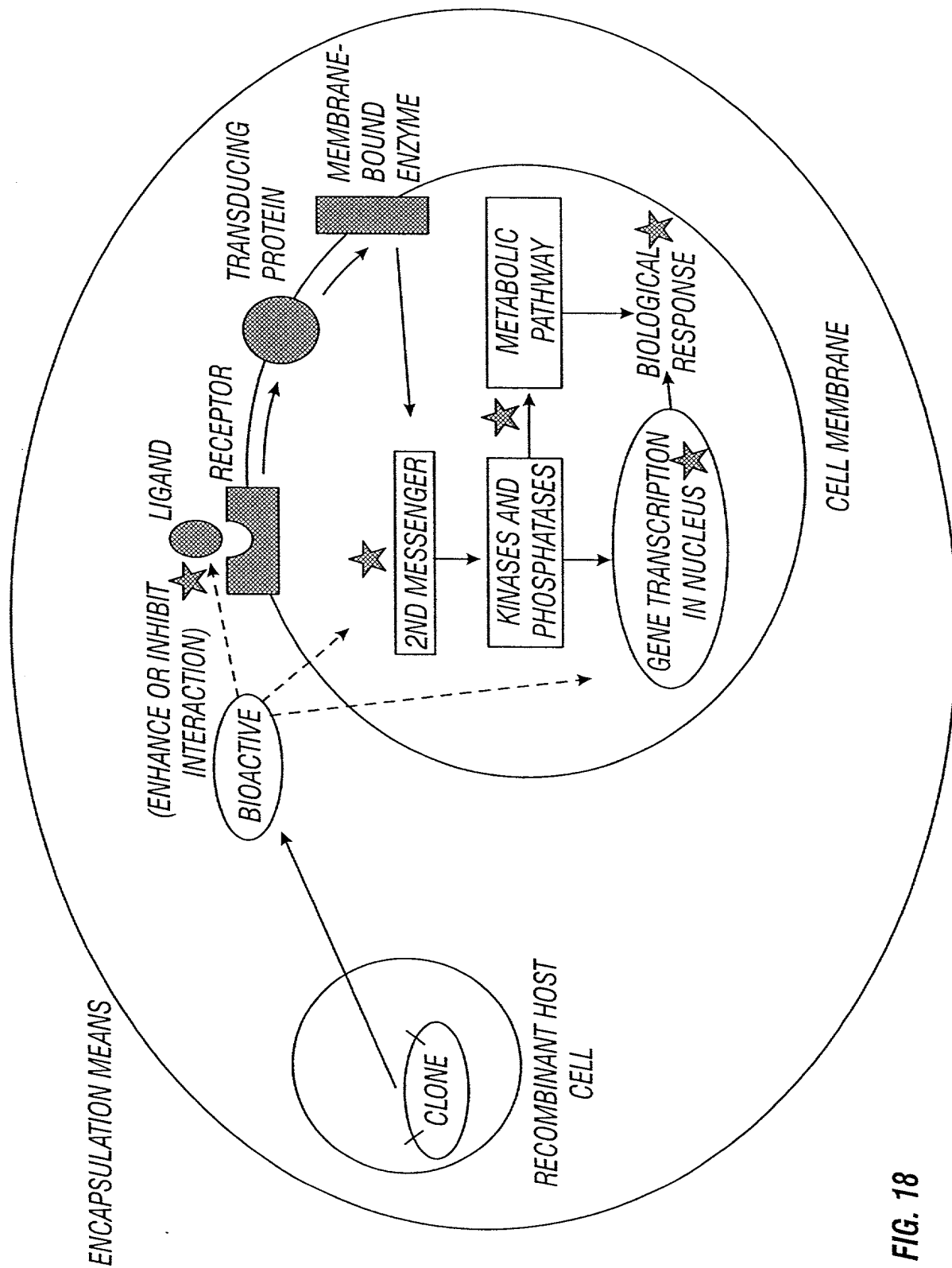


FIG. 18